

## EAST Search History

| Ref # | Hits | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------------|------------------|---------|------------------|
| S1    | 1    | ("20030118279").PN.   | US-PGPUB;<br>USPAT           | OR               | OFF     | 2005/07/19 16:17 |
| S2    | 0    | ("2003/0118279").URPN.  | USPAT                        | OR               | ON      | 2005/07/19 16:18 |
| S3    | 2    | ((4775207") or ("5418868")).PN.   | US-PGPUB;<br>USPAT           | OR               | OFF     | 2005/09/27 14:33 |
| S4    | 0    | ("2003/0118279").URPN.  | USPAT                        | OR               | ON      | 2005/09/27 14:34 |
| S5    | 10   | ((5418868") or ("4300814") or<br>("5022731") or ("4674827") or<br>("5303315") or ("6078605") or<br>("5528708") or ("5594818") or<br>("5640471") or ("5293436")).PN.   | US-PGPUB;<br>USPAT           | OR               | OFF     | 2005/09/27 14:43 |
| S6    | 1    | ("6856751").PN.   | US-PGPUB;<br>USPAT           | OR               | OFF     | 2005/09/27 14:43 |
| S7    | 150  | ("20030039461"   "3920314"  <br>"4127320"   "4196964"  <br>"4198116"   "4232385"  <br>"4262992"   "4266850"  <br>"4433895"   "4468085"  <br>"4492425"   "4630885"  <br>"4674827"   "4679893"  <br>"4720160"   "4756588"  <br>"4761049"   "4772083"  <br>"4871223"   "4917449"  <br>"4932738"   "4940305"  <br>"4998255"   "5004342"  <br>"5007696"   "5039186"  <br>"5044715"   "5056883"  <br>"5064264"   "5091981"  <br>"5093883"   "5117470"  <br>"5125065"   "5148503"  <br>"5148505"   "5148507"  <br>"5158908"   "5163106"  <br>"5185830"   "5227911"  <br>"5293436"   "5303315"  <br>"5364495"   "5418868"  <br>"5446573"   "5572542"  <br>"5790583"   "5825799"  <br>"5878070"   "6035078"  <br>"6463183").PN. OR<br>(("2003/0118279"   "4674827"  <br>"5022731"   "5293436"  <br>"5303315"   "5418868"  <br>"5528708"   "5594818"  <br>"5640471"   "6078605"  <br>"6856751").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2005/09/27 14:48 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S8  | 143 | S7 not (S3 S5 S6)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:06 |
| S9  | 2   | S8 and adiabatic and ("3dB" or "3"\$dB)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:33 |
| S10 | 13  | (US-20030118279-\$).did. or (US-5418868-\$ or US-4674827-\$ or US-5022731-\$ or US-5293436-\$ or US-5303315-\$ or US-5528708-\$ or US-5594818-\$ or US-5640471-\$ or US-6078605-\$ or US-6856751-\$ or US-4262992-\$ or US-6064788-\$).did. | US-PGPUB;<br>USPAT  | OR | ON | 2005/09/27 14:46 |
| S11 | 3   | S10 and adiabatic and ("3dB" or "3"\$dB)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 14:47 |
| S12 | 504 | 385/45.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 14:47 |
| S13 | 3   | S12 and adiabatic and ("3dB" or "3"\$dB)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:19 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S14 | 117 | ( "3781081"   "3849740"  <br>"3909108"   "3995311"  <br>"4008947"   "4012113"  <br>"4070092"   "4070094"  <br>"4087159"   "4128300"  <br>"4130342"   "4139259"  <br>"4168107"   "4266850"  <br>"4515430"   "4652076"  <br>"4674827"   "4722583"  <br>"4737002"   "4738502"  <br>"4753505"   "4886538"  <br>"4998791"   "5035734"  <br>"5078516"   "5117470"  <br>"5119447"   "5119450"  <br>"5129017"   "5148507"  <br>"5185828"   "5257330"  <br>"5285507"   "5293436"  <br>"5333231"   "5408544"  <br>"5408566"   "5418868"  <br>"5432873"   "5448658"  <br>"5455433"   "5461684"  <br>"5481636"   "5594818"  <br>"5617493"   "5712935").PN. OR<br>( "4262992"   "4846540"  <br>"4850666"   "5375178"  <br>"5521993"   "5611007"  <br>"6064788").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2005/09/27 15:05 |
| S15 | 99  | S14 not (S3 S5 S6 S7)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:06 |
| S16 | 2   | (adiabatic same ("3dB" or "3"\$dB)<br>same coupl\$4) and (waveguide<br>same width same asymmetric)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:24 |
| S17 | 3   | (adiabatic same ("3dB" or "3"\$dB)<br>same coupl\$4) and (waveguide<br>same asymmetric)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:24 |
| S18 | 1   | S17 not S16  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/27 15:24 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S19 | 11 | adiabatic same ("3dB" or "3"\$dB)<br>same coupler   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/09/27 15:33 |
| S20 | 26 | ("5044715"   "5117470"  <br>"5125065"   "5293436").PN. OR<br>("5418868").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/09/27 15:34 |
| S21 | 1  | 2003-696422.NRAN.   | DERWENT   | OR | ON  | 2005/09/27 15:36 |
| S22 | 23 | (US-20030118279-\$).did. or<br>(US-5418868-\$ or US-4674827-\$<br>or US-5022731-\$ or US-5293436-\$<br>or US-5303315-\$ or US-5528708-\$<br>or US-5594818-\$ or US-5640471-\$<br>or US-6078605-\$ or US-6856751-\$<br>or US-4262992-\$ or US-6064788-\$<br>or US-4846540-\$ or US-4850666-\$<br>or US-5375178-\$ or US-5521993-\$<br>or US-5611007-\$ or US-4998793-\$<br>or US-5418867-\$ or US-5526453-\$<br>or US-6915047-\$).did. or<br>(EP-653665-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                                    | OR | ON  | 2005/09/27 15:44 |
| S23 | 9  | S22 and ((index or indicies) with<br>refraction)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/09/27 15:45 |
| S24 | 1  | ("20030118279").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2006/03/02 15:53 |
| S25 | 0  | ("2003/0118279").URPN.  | USPAT   | OR | ON  | 2006/03/02 15:54 |
| S26 | 28 | ("5044715"   "5117470"  <br>"5125065"   "5293436").PN. OR<br>("5418868").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/03/06 09:08 |